

Title (en)
IMPROVED HOMOGENEOUS LUMINESCENCE BIOASSAY

Title (de)
VERBESSERTES BIOASSAY MIT HOMOGENER LUMINESZENZ

Title (fr)
DOSAGE BIOLOGIQUE HOMOGENE PAR LUMINESCENCE AMELIORE

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Abstract (en)
[origin: WO2008104638A2] This invention relates to a homogenous bioassay for use in measurement of biological activity, its modulation or analyte concentration of a sample, said bioassay comprising i) a first group comprising an acceptor, which acceptor is a short lifetime fluorescent compound capable of energy transfer, and ii) a second group comprising a quencher, which quencher is capable of energy transfer from an acceptor, and the first and second group are linked by at least a first linkage, and an increase, of fluorescence of said acceptor due to the decrease, of energy transfer from said acceptor to said quencher resulting from cleavage of said first linkage, is measured. Characteristic for the bioassay is that it comprises iii) a further third group comprising a donor for energy transfer to said acceptor, which donor is an up-conversion fluorescent compound, a long-lifetime fluorescent compound or an electrogenerated luminescent compound; and a conformational or terminal epitope is created on said first group through said cleavage of the linkage, and said third group comprises a binder with affinity for binding to said conformational or terminal epitope; and the fluorescence of said acceptor is brought about by exciting the donor resulting in energy being transferred from the donor to the acceptor. This invention also relates to kits for homogenous bioassays according to the method of the invention.

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